



ABSTRACT

[Object] To construct a disaster prevention system in which the trouble and costs of production and installment for providing several types of detection portions and their data acquisition devices can be reduced, and a plurality of sensors are provided for each predetermined section of the pipeline. [Solution] A pair of connection flanges 1 which is flange-connected to a section part dividing a pipeline P in the midst of the same, an inner pipe 2 which connects the section part of the pipeline P in a manner of allowing fluid circulation, a bypass pipe 3 having a flow path branching in a bypassing manner from a position of the inner pipe 2 closer to the upstream side, and merging again in a position of the inner pipe 2 closer to the downstream side, and a rotor 4 provided within the flow path of the bypass pipe 3 about the inner pipe 2 and rotates by the fluid circulation to the bypass pipe 3, an electromotive device 5 which generates electricity by the rotation of the rotor 4, and at least either the detector 6 or power receiving device 8 which is electrically connected with the electromotive device 5 are provided.

[Selected drawing] Fig. 4

